

Fw: SAP for Dimock
Richard Rupert to: Nance, Gene, Graves, Suddha, Carter, Joe

12/28/2011 04:12 PM

From: Richard Rupert/R3/USEPA/US
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FYI

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----- Forwarded by Richard Rupert/R3/USEPA/US on 12/28/2011 04:11 PM -----

From: Ralph Ludwig/ADA/USEPA/US
To: Richard Rupert/R3/USEPA/US
Date: 12/28/2011 04:05 PM
Subject: Re: SAP for Dimock

Rich,

The following is the SOW that we use for Isotech analysis. For those samples that you send to Isotech, you should probably be consistent with what we have requested below. This would include delta C13 for DIC and delta C13 of ethane (if sufficient ethane is present). One sample from Dimock that we would like to have go to Isotech for analysis would be the

Ex. 5 - Personal Privacy

 well water.

Sorry to complicate your life further.

Ralph

Scope of Work and QA requirements for analysis of the Stable Carbon Isotope Ratio of DIC and Dissolved Gases and Stable Hydrogen Isotope Ratio of Dissolved Methane and Ethane in Water Samples

Samples of ground water will be provided for isotopic analyses of dissolved inorganic carbon (DIC) and dissolved gases. Isotech will not be required to determine the concentration of inorganic carbon or dissolved gases in the samples.

The isotope analyses are intended to provide information about the carbon cycle in the systems. The measurements will be for $\delta^{13}\text{C}$ of dissolved inorganic carbon, the $\delta^{13}\text{C}$ value of C1-C2 gases, and the $\delta^2\text{H}$ of hydrogen in methane and ethane.

Isotech shall select a sample for a laboratory duplicate analysis for both DIC and dissolved gases in each submitted set to fulfill attached QA/QC requirements. This sample needs to be from our submitted sample sets and not from another site or sample queue.

The inorganic carbon samples will be collected into 60 mL plastic bottles (filtered, unpreserved); the dissolved gas samples will be sampled into 1 L plastic bottles provided by Isotech Laboratories. The bottles will be filled with ground water and those for dissolved gas analysis will be preserved with a caplet of benzalkonium chloride. It is expected that the concentration of DIC and dissolved gases will be high enough in the samples so that these volumes will be adequate for the analyses. Isotech will identify those samples in which concentrations are not high enough for these measurements. For the dissolved gas samples, the bottles will be transported so that the aqueous solution is on top of the bottle closure, i.e., the bottles will be transported upside down. All samples will be transported on ice.

QA/QC requirements are identified in the attached tables.

Isotech Laboratories will submit a final report at completion of analysis which includes tabulation of final results, list of SOPs used (title and SOP #), and full data packages. Full data packages (can be provided at a later date, within 30 days of issuing final results) shall be provided on CD for all sample analyses to allow for reconstruction of analysis. Chain-of-custody forms, calibration data, QA/QC data, raw data, data reduction, data qualifiers, deviations from method requirements, deviations from QC acceptance criteria and these deviations' impact to reported results. The full data packages shall be copied to the GWERD QA Manager, Steve Vandegrift.

Results of the analysis will be reported to Ralph Ludwig via e-mail at ludwig.ralph@epa.gov within five weeks of the receipt of the samples.

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